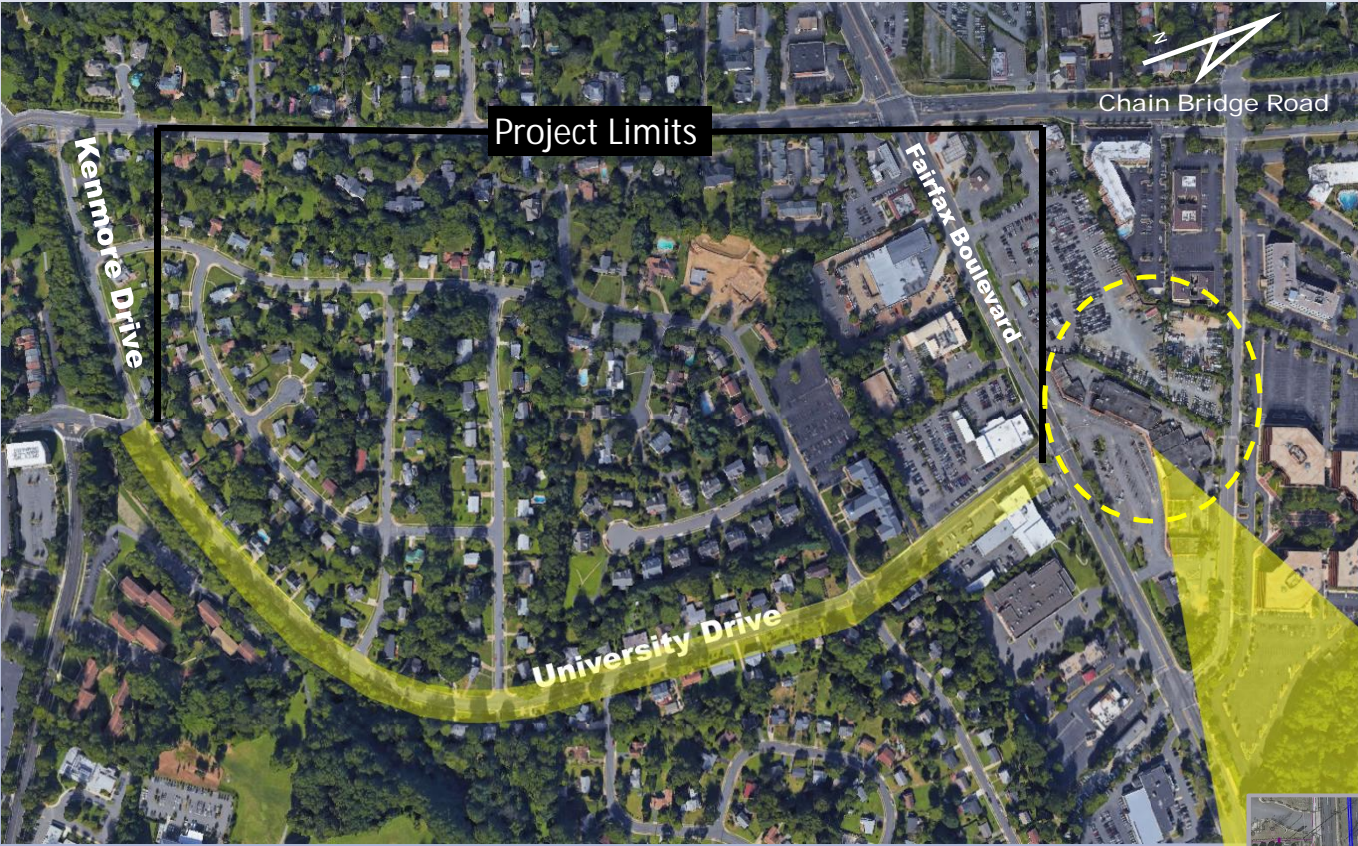


University Drive Traffic Calming



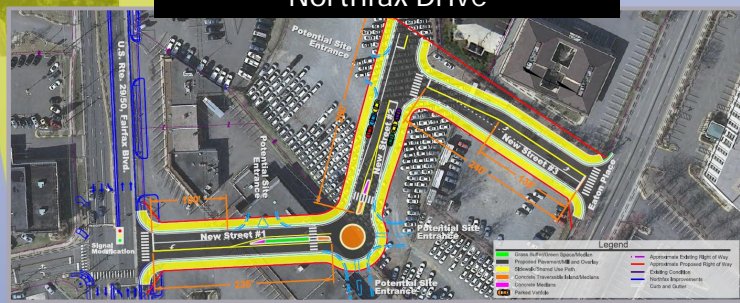
Study Area



Project Goals:

- ✓ Address speeding
- ✓ Reduce number of crashes with parked vehicles
- ✓ Enhance pedestrian safety
- ✓ Minimize potential impacts presented by Northfax Drive
- ✓ Use community feedback to identify and implement traffic calming measures

Future Development: Northfax Drive



University Drive Traffic Calming



Why Traffic Calming?

Overview and Process

The goal of traffic calming is to **lower vehicle speeds in residential neighborhoods without restricting access**. When done well, traffic calming can also enhance pedestrian safety and reinforce neighborhood character.

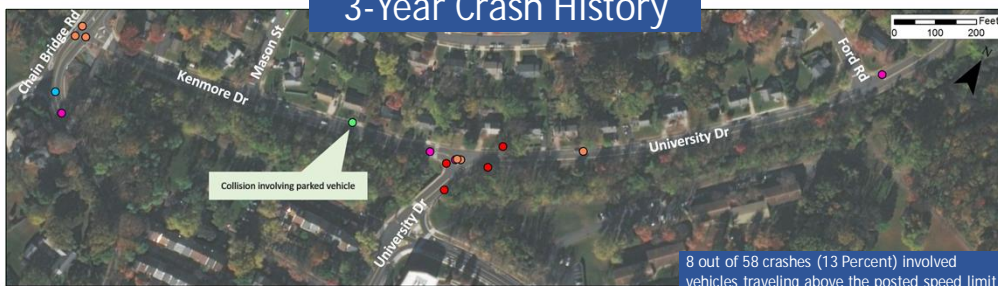
Step 1. Identify Potential Traffic Calming Improvements

Step 2. Vet Options and Tradeoffs with the Community

Step 3. Refine Traffic Calming Improvements

Step 4. Implement Final Traffic Calming Improvements

3-Year Crash History



University Drive
Crash Analysis (January 1, 2014 – June 30, 2017)

● Rear End ● Angle ● Sideswipe – Same Direction ● Fixed Object – Off Road
● Ped ● Head On ● Fixed Object in Road

Potential Traffic Calming Improvements



Curb Extensions/Bulb-Outs

Benefits:

- ✓ Narrows crossing distance
- ✓ Improves visibility
- ✓ Buffers parked vehicles
- ✓ Reduces turning speeds (6-8 mph)
- ✓ Reduces through-traffic speeds (1-3 mph)

Tradeoff:

- Bicyclists must navigate around the bulb-out, pushing them further into the travel lane



Mid-Block Bulb-Outs: Chicanes

Benefits:

- ✓ Adds greenery
- ✓ Buffers parked vehicles
- ✓ Narrows lane to discourage speeding
- ✓ S-shaped travel path slows traffic
- ✓ Reduces through-traffic speeds (3-9 mph)

Tradeoffs:

- Removes 1-2 parking spaces per island
- Possibility of collision with vehicles or snow plows



Mid-Block Bulb-Outs: Chokers

Benefits:

- ✓ Adds greenery
- ✓ Buffers parked vehicles
- ✓ Narrows lane to discourage speeding
- ✓ Reduces through-traffic speeds (1-4 mph)

Tradeoffs:

- Removes 1-2 parking spaces per island
- Narrows travel lane for bicyclists
- Possibility of collision with vehicles or snow plows



On-Street Parking

Benefits:

- ✓ Non-intrusive
- ✓ Buffers parked vehicles
- ✓ Rapid implementation
- ✓ Narrows lane to discourage speeding
- ✓ Reduces through-traffic speeds (0.5 mph)

Tradeoffs:

- Maintenance and restriping
- Ford Rd to Wood Rd: Removes ability to park along east side of the street (20 spaces removed)



Community Signage

Benefits:

- ✓ Attractive aesthetic
- ✓ Signals significant change in driving environment to motorists
- ✓ Reduces through-traffic speeds (2 mph)

Tradeoff:

- Requires ongoing maintenance

University Drive Traffic Calming



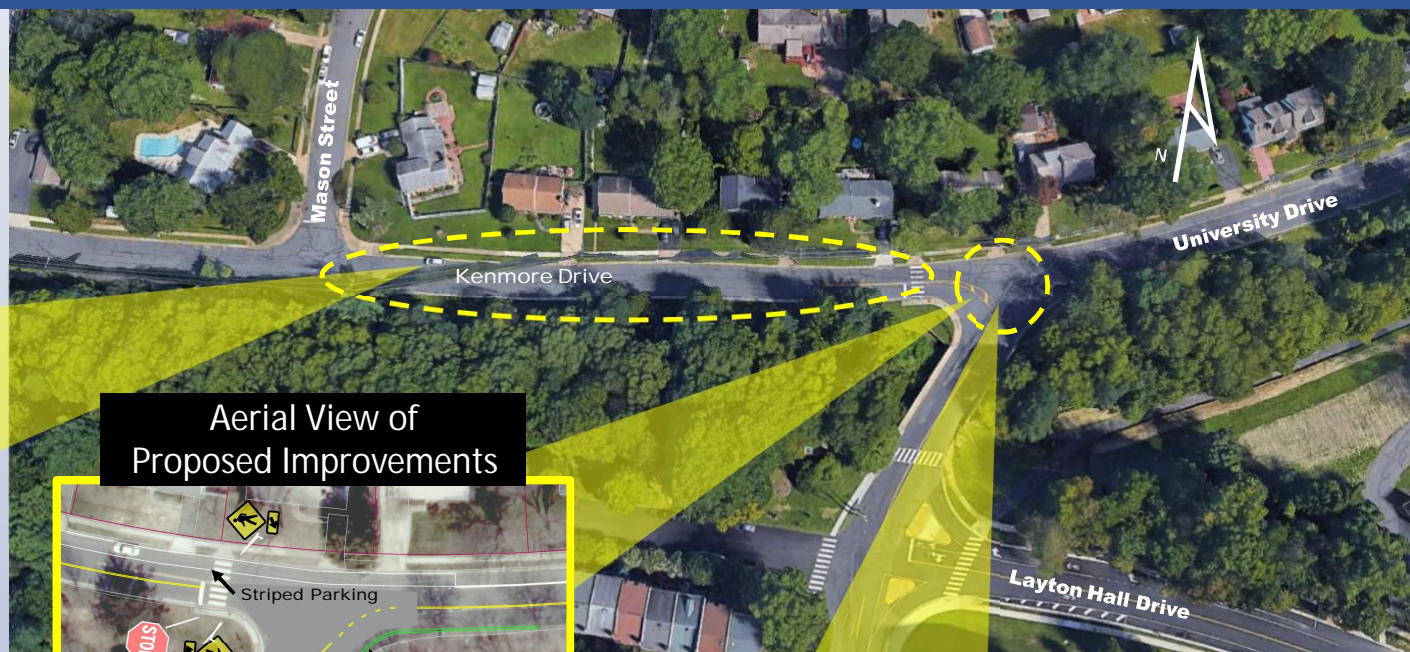
Menu of Traffic Calming Improvements

★ Vehicle Speed Reduction ~ 1/2 mph

With Striped Parking



Existing



Aerial View of
Proposed Improvements



With Curb Modification



Existing



Displayed Traffic Calming Measures:

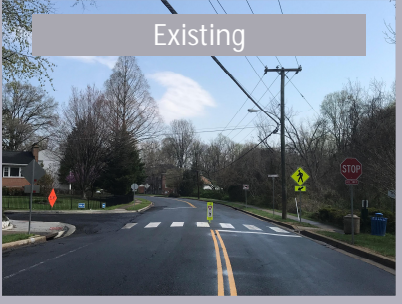
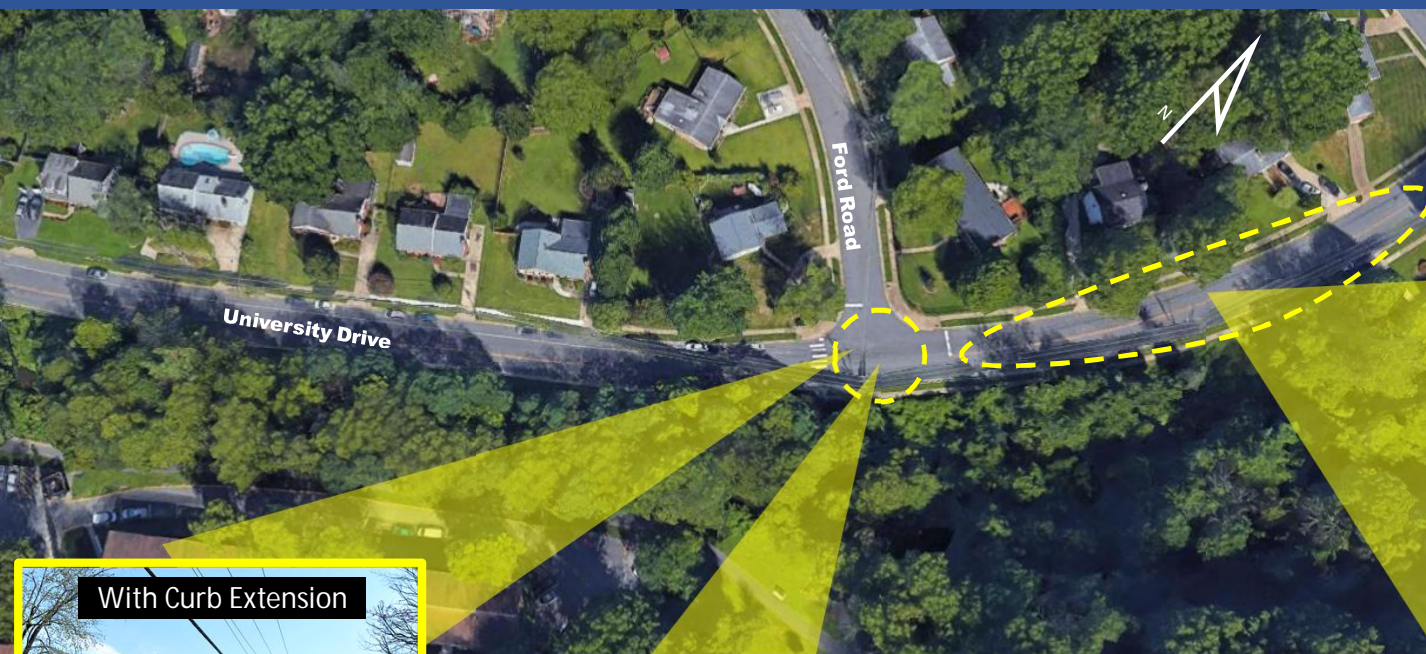
- ✓ Reduce turning speed
- ✓ Signal entry into neighborhood
- ✓ Reduce driver confusion
- ✓ Narrow lane to slow traffic
- ✓ Create visual barrier between travel lane and parking lane

★ Potentially reduces turning speed

University Drive Traffic Calming



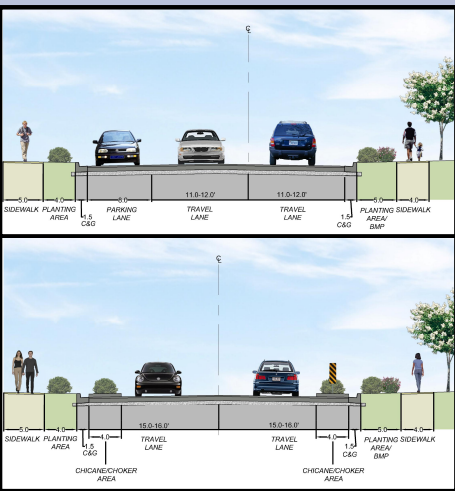
Menu of Traffic Calming Improvements



Aerial View of Proposed Improvements



Typical Street Section with Striped Parking or Mid-block Bulb-outs



Displayed Traffic Calming Measures:

- ✓ Reduce pedestrian crossing distance
- ✓ Improve visibility
- ✓ Buffer on-street parking
- ✓ Reduce travel speed
- ✓ Improve aesthetics

University Drive Traffic Calming



Menu of Traffic Calming Improvements



With Chicanes

★ Vehicle Speed Reduction ~ 3-9 mph

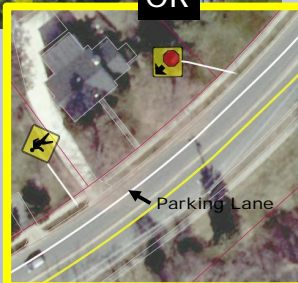
OR



With Chokers

★ Vehicle Speed Reduction ~ 1-4 mph

OR



With Striped Parking

★ Vehicle Speed Reduction ~ 1/2 mph

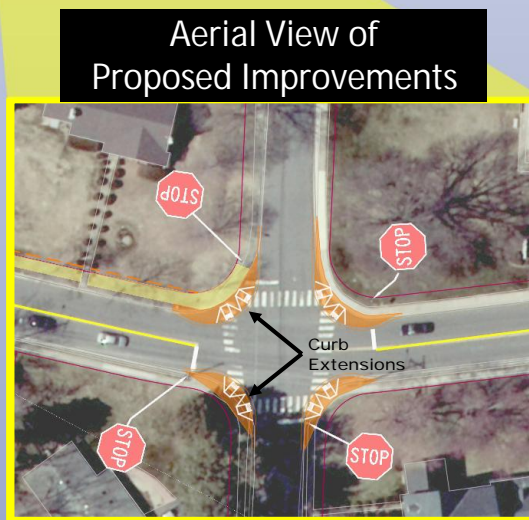
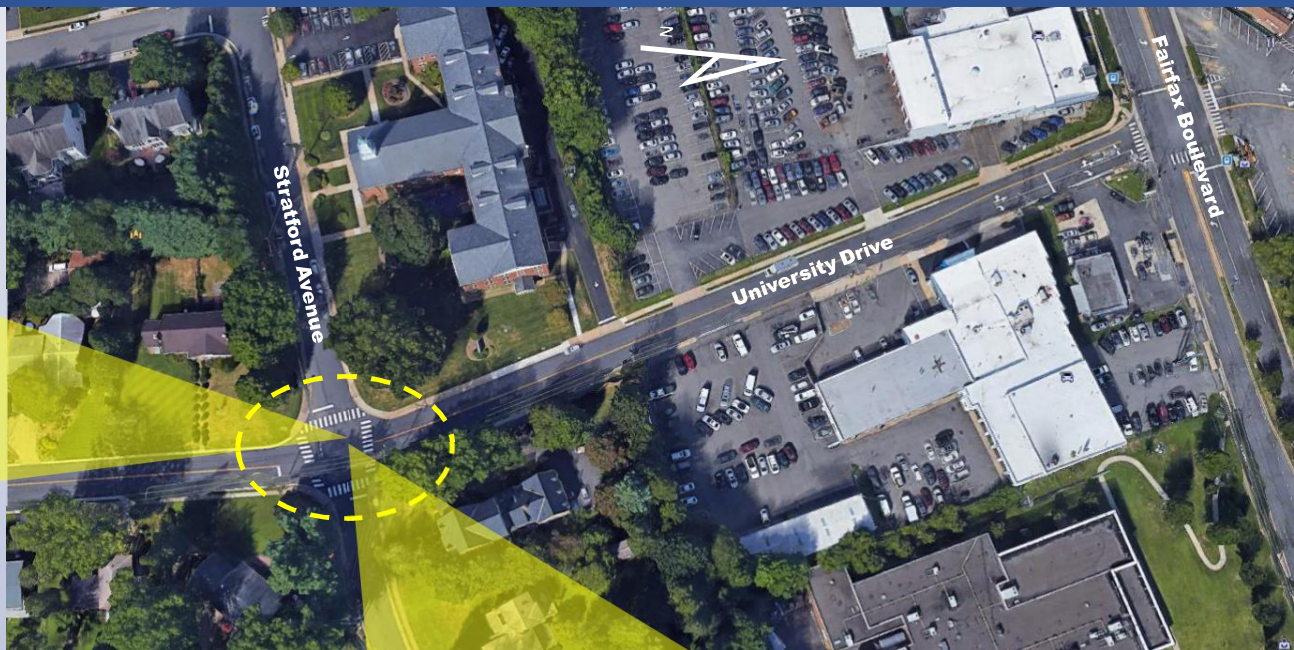
Displayed Traffic Calming Measures:

- ✓ Improve visibility
- ✓ Relocate crosswalk to Jean St
- ✓ Enhance pedestrian safety
- ✓ Buffer on-street parking
- ✓ Reduce travel speed
- ✓ Improve aesthetics

University Drive Traffic Calming



Menu of Traffic Calming Improvements



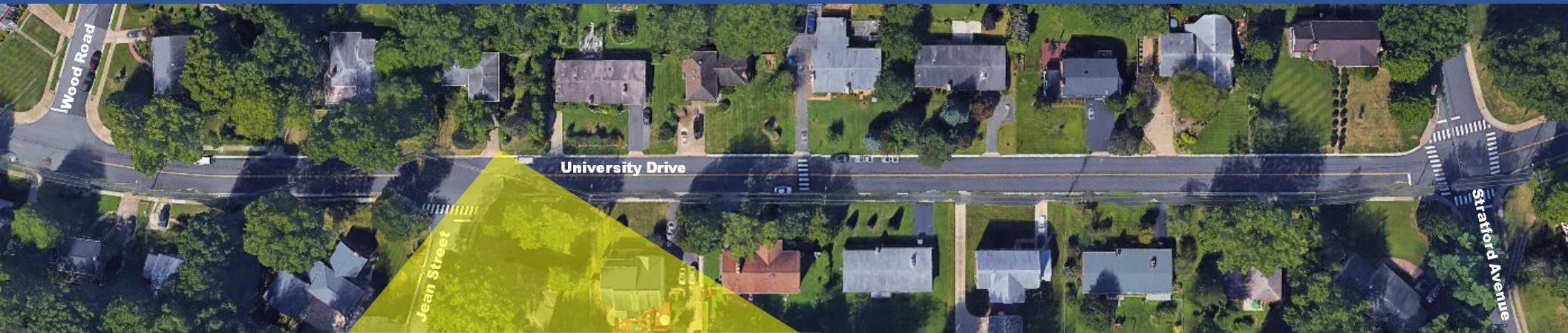
Displayed Traffic Calming Measures:

- ✓ Reduce pedestrian crossing distance
- ✓ Improve visibility
- ✓ Buffer on-street parking
- ✓ Reduce travel speed
- ✓ Improve aesthetics

University Drive Traffic Calming



Additional Pedestrian Enhancement



Displayed Pedestrian Enhancement:

- ✓ Completes sidewalk on west side of road
- ✓ Improves pedestrian mobility
- ✓ Reinforces neighborhood character





Displayed Enhancements:

- ✓ Increases visibility
- ✓ Enhances safety
- ✓ Encourages walking
- ✓ Improve aesthetics
- ✓ Announces to motorists that they are entering a community where there is a significant change in the driving environment

With Lighting Improvements



LED Acorn-Style
Lighting



Existing Cobra-Head
Lighting

★ Existing Lighting can be supplemented with Acorn-Style, pedestrian scale lights or replaced entirely

Community Signage



★ Vehicle Speed Reduction ~ 1-3 mph